

A COX-2-Inhibitor

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Dosage	References
(+)-CATECHIN	IC50=546-5,910 uM (cf indomethacin IC50=1 uM)	*
3,4-METHYLENE-DIOXYCINNAMIC-ACID-BORNYL-ESTER	IC18=100 ug/ml	*
AIPHANOL	--	*
AJOENE	--	*
ALPHA-BOSWELLIC-ACID	--	*
ANTHOCYANINS	IC47=125 ug/ml	*
APIGENIN	IC50=<15 uM	*
APIGENIN	<40 uM	*
APIGENIN	IC>65=1,000 uM	*
AR-TURMERONE	IC50=5.6 ug/ml	*
BAICALEIN	100 ug/ml	*
BERBERASTINE	100 ug/ml	*
BERBERINE	100 ug/ml	*
BETA-CAROTENE	IC82=50 ug/ml	*
BETA-TURMERONE	IC50=1.6 ug/ml	*
BOSWELLIC-ACID	--	*
CAFFEIC-ACID	IC32=100 uM	*
CINNAMALDEHYDE	IC50=245 uM	*
CINNAMIC-ACID-BORNYL-ESTER	IC19=100 ug/ml	*
CIRSIMINEOL	IC>37=1,000 uM	*
CIRSIMARITIN	IC>50=1,000 uM	*
CURCUMIN	10-20 uM	*
CYANIDIN-3-O-GLUCOSIDE	IC59=100 ug/ml	*
EICOSAPENTAENOIC-ACID	1 uM	*
EMODIN	--	*
EUGENOL	IC50=129 uM	*
EUGENOL	IC>97=1,000 uM	*
EVODIAMINE	2.5 ug/ml	Kang, S. S., Kim, J. S., Son, K. H., Kim, H. P., Chang, H. W. 1999. Cyclooxygenase-2 Inhibitor from <i>Evodia rutaecarpa</i> . <i>Nat. Prod. Sci.</i> , 5(2): 65-69.
EVODOL	2.5 ug/ml	Kang, S. S., Kim, J. S., Son, K. H., Kim, H. P., Chang, H. W. 1999. Cyclooxygenase-2 Inhibitor from <i>Evodia rutaecarpa</i> . <i>Nat. Prod. Sci.</i> , 5(2): 65-69.
FLAVOKAWAIN-B	IC16=100 ug/ml	*
HUMULONE	--	Yamamoto, Wang, et al. 2000. Federation of European Biochemical Societies. (per e-mail with Tom Newmark)
ISOTHYMONIN	IC>37=1,000 uM	*
KAEMPFEROL	--	*
LAURIC-ACID	IC20=100	*

Chemical	Dosage	References
MELATONIN	--	Newmark, T. M. and Schulick, P. 2000. <i>Herbal Cox-2 Inhibition - Nature's Challenge to Arthritis, Cancer & Alzheimer's Disease</i> . Hohm Press, Prescott AZ.
MYRICETIN-3-O-BETA-D-GLUCURONIDE	IC50=8 uM/	Hiermann, A., Schramm, H. W., Laufer, S. 1998. Anti-Inflammatory Activity of Myricetin-3-O-beta-d-glucuronide and Related Compounds. <i>Inflamm. Res.</i> , 47(11): 421-427.
OLEANOLIC-ACID	IC50=295 uM/	*
OLEANOLIC-ACID	--	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from <i>Plantago major</i> , a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. <i>J. Nat. Prod.</i> , 61(10): 1212-1215.
PARTHENOLIDE	--	Newmark, T. M. and Schulick, P. 2000. <i>Herbal Cox-2 Inhibition - Nature's Challenge to Arthritis, Cancer & Alzheimer's Disease</i> . Hohm Press, Prescott AZ.
PINOSTROBIN	IC7=100 ug/ml	*
PTEROSTILBENE	IC50=84 uM	*
PUNICIC-ACID	--	*
QUERCETIN	<40 uM	*
RESVERATROL	30 uM/	Subbaramaiah, K., Michaluart, P., Chung, W. J., Dannenberg, A. J. 1998. Resveratrol Inhibits the Expression of Cyclooxygenase-2 in Human Mammary and Oral Epithelial Cells. <i>Pharm. Biol. Suppl.</i> , 36: 35-43.
RESVERATROL	50 uM/	*
RESVERATROL	>2.5->22.5 uM	*
ROSMARINIC-ACID	IC>58=1,000 uM	*
RUTAECARPINE	2.5 ug/ml (strong activity)	Kang, S. S., Kim, J. S., Son, K. H., Kim, H. P., Chang, H. W. 1999. Cyclooxygenase-2 Inhibitor from <i>Evodia rutaecarpa</i> . <i>Nat. Prod. Sci.</i> , 5(2): 65-69.
SALICYLIC-ACID	--	Newmark, T. M. and Schulick, P. 2000. <i>Herbal Cox-2 Inhibition - Nature's Challenge to Arthritis, Cancer & Alzheimer's Disease</i> . Hohm Press, Prescott AZ.
TRANS-RESVERATROL	20 uM/	Jang, M., Pezzuto, J. M. 1999. Cancer Chemopreventive Activity of Resveratrol. <i>Drugs Exp. Clin. Res.</i> , 25(2/3): 65-77.
UROLITHIN-A	--	*
URSOLIC-ACID	IC50=130 uM/	*